

DERWENT-ACC-NO: 1994-247060

DERWENT-WEEK: 199430

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TITLE: Rotary cylindrical granulator - has fixed
mixing hollow blades connected with hollow support shaft,
serving as heating agent delivery channel.

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
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APPLICATION-DATA:

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INT-CL (IPC): B01J002/14

ABSTRACTED-PUB-NO: SU 1813553A

BASIC-ABSTRACT:

Granulator comprises a free to rotate covered cylindrical vessel (1) with radial hollow blades (4) mounted on a fixed central hollow shaft. Bottom of the vessel (1) is connected to a rotary drive (6). Upper portion of the vessel (1) is connected through a pipe (8) to an exhaust fan producing a partial vacuum of 20 mm of water. Granules collect in annular channel (5), which is located at the bottom of the vessel (1) and is provided with a blade (6),

directing granules into the unloading chute (7).

The vessel (1) is preliminarily charged with seed particles, e.g. glucose, rotated and concn. soln. of glucose contg. at least 83% of dry material is introduced into the vessel (1) via one of the hollow blades (4).

USE/ADVANTAGE - Used in chemical and food industry to form granules mainly from solns. of crystalline cpds., e.g. sugars. Features simple delivery of soln., uniform delivery of drying agent and reduced torque on the slow revolving shaft.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: ROTATING CYLINDER GRANULE MIX HOLLOW BLADE CONNECT HOLLOW
SUPPORT SHAFT SERVE HEAT AGENT DELIVER CHANNEL

DERWENT-CLASS: D17 J04

CPI-CODES: D06-C; J04-A05;

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